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	Application No.	Applicant(s)
Notice of Allowability	10/701,476	FUJITA ET AL.
	Examiner	Art Unit
	Thanhha Pham	2813
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject to	oplication. If not included n will be mailed in due course. THIS
1. A This communication is responsive to 10/07/2005 and interv	view dated 01/17/2006.	
2. The allowed claim(s) is/are <u>17,18 and 20-33</u> .		
3. ☑ Acknowledgment is made of a claim for foreign priority un a) ☑ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No		
Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents.		
International Bureau (PCT Rule 17.2(a)).	Cuments have been received in this	mational stage application from the
* Certified copies not received:	1.	
•	• .	complying with the requirements
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	or this communication to file a reply ENT of this application.	complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the draw he header according to 37 CFR 1.121	ings in the front (not the back) of (d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	C	Detent Application (DTO 152)
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	 5.	Patent Application (PTO-152)
2. If Notice of Draitperson's Patent Drawing Review (P10-946)	Paper No./Mail Da	ate <u>1/19/2006</u> .
 Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material 		
	8. 🖾 Examiner's Statem	nent of Reasons for Allowance
	9.	
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EXAMINER'S AMENDMENT

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Soltz on 01/12/2006 and 01/17/2006.

The application has been amended as follows:

In claim 17,

line 3, after "substrate" insert -- , said porous insulating film including pores therein --

line 4, delete "and"

line 6, after "layer;" insert - and -

lines 7-8, replace "wherein said porous insulating film is irradiated with an electron beam to enlarge the size of pores of said porous insulating film" with – subsequent to filling said recessed portion with said conductive material, enlarging sizes of said pores through radiation of an electron beam onto said porous insulating film –

In claim 18,

line 1, after "wherein" insert - before said enlarging, --

line 1, before "porous" insert - said -

line 2, change "has" to - have -

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Cancel claim 19

In claim 24,

line 2, change "an electron beam" to - said electron beam --

Allowable Subject Matter

- 2. Claims 17-18 and 20-33 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Recorded Prior Art fails to disclose or suggest the combination of the process steps for manufacturing a semiconductor device as recited in the base claim 17 including: subsequent to filling said recessed portion with said conductive material, enlarging sizes of said pores through radiation of an electron beam onto said porous insulating film.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhha Pham whose telephone number is (571) 272-1696. The examiner can normally be reached on Monday and Thursday 9:00AM 9:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thanhha Pham